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Sixth Meeting of the Scientific and Technical Advisory Committee (STAC) of the Protocol Concerning Pollution from Land-Based Sources and Activities (LBS) in the Wider Caribbean Region

Virtual, 01 February 2023 – 03 February 2023

## **DRAFT WORK PLAN OF RAC (2023-2024)**

*This meeting is being convened virtually. Delegates are kindly requested to access all meeting documents electronically for download as necessary.*



**RAC IMA**  
**Draft Work plan 2023/2024**  
**Submitted by the Institute of Marine Affairs**  
**January 9, 2023**

## **1. Background**

Decision V of the Fifth Meeting of the Contracting Parties (COP) to the Protocol Concerning Pollution from Land-Based Sources and Activities (LBS) in the Wider Caribbean Region held virtually, 26 July 2021 endorsed the Medium-Term Strategic Plans presented by RAC IMA and RAC CIMAB. The LBS COP5 decision further requested the development of biennial work plans by the LBS RACs that could be approved as part of the 2023-2024 biennium work plan for enabling greater integration of RAC activities into future AMEP Work Plans and Budgets. The biennial work plans by the LBS RACs will be presented to the 6<sup>th</sup> Scientific, Technical and Advisory Committee (LBS STAC 6) at the LBS Protocol meeting scheduled to take place virtually during the first quarter of 2023.

The summary of the draft work plan would follow the same format used in the presentation of the 2021/2022 work plan by focusing on strategic objectives indicated in RAC IMA Long-term Strategic plan. The proposed activities/priorities reflect a combination of ongoing projects from the current biennium, new projects and activities, and activities from the current work plan.

The work plan will support the implementation of the Medium-Term Strategy for the Cartagena Convention (2022-2030) and other regional strategies that have been adopted by Parties including the Regional Marine Litter Strategy and Regional Nutrients Pollution Reduction Strategy. It further reflects continued efforts by the LBS RAC and Cartagena Secretariat to integrate relevant activities of the SPAW and AMEP Sub-Programmes and facilitate greater cooperation among Regional Activity Centres (RACs) and other agencies that form part of Regional Activity Networks (RANs).

## **2. Work Programme**

### *A. Programme Coordination and Management*

#### Strategic objectives:

- Assist the Cartagena Convention secretariat in strengthening regional and national governance mechanisms, resource availability, and capacity for the implementation of and compliance with the Cartagena Convention, the Oil Spills and LBS Protocols, and approved regional strategies and/or action plans on pollution.
- Strengthen synergies and collaboration among RACs, international and regional partners, and organizations active in the Wider Caribbean region, and enhance broad stakeholder participation in the design and implementation of projects and activities.

Main activities:

- Promote ratification of the LBS Protocol by Non-Contracting Parties
- Organize meetings/workshop (online or face to face) between Contracting parties and Non-contracting parties to share experiences and lessons learnt on the process of ratification and implementation of the LBS Protocol.
- Support in organizing the 6th LBS STAC, 6th LBS COP and meetings of the Open-Ended Working Group.
- Support Development of National Pollution Reduction Strategies.
- Strengthen cooperation with LBS focal points to enable high level political support to ratification and implementation of the LBS and Oil Spills Protocols.

*B. Land and Marine-Based Sources of Pollution*

Strategic objective:

- Control, prevent and reduce marine pollution from land and marine-based sources.

This will be achieved by:

1. Assisting Parties with implementation of their obligations under the Land-Based Sources of Marine Pollution and Oil Spills Protocols and related regional strategies on Marine Litter and Nutrients.
2. Developing, and/or updating and/or implementing of new/existing regional and/or national strategies and action plans including complying with guidelines, standards and criteria.
3. Supporting further discussions on possible amendments to the LBS Protocol and its Annexes.
3. Enhancing national marine pollution prevention and control policies, legislation and regulations.
4. Ongoing implementation of National and Pilot projects with a focus on improving marine litter, agrochemical run-off and wastewater management which contributing to new, alternative and sustainable livelihoods.
5. Identifying and tackling new and emerging issues such as wastewater impacts on coral reef ecosystems, links between nutrients and sargassum, and the issue of antimicrobial resistance.

*C. Monitoring and Integrated Ecosystems Assessment*

Strategic objective:

- Improve Science-Policy Interface by enhanced generation and use of pollution-related data and information for more informed decision-making.

This will be achieved through:

1. Developing/Strengthening national pollution monitoring programmes and facilitating professional and technical exchanges.

2. Update CReW+ clearinghouse mechanism on financial options, small- and large-scale wastewater treatment technologies, and wastewater and water management policies and practices developed
3. Strengthening of RAC IMA capacities in order to improve the clearinghouse mechanism related to wastewater treatment technologies, and wastewater and water management policies and practices developed
4. Providing training and capacity building in collaboration with partners in areas such as wastewater effluent monitoring, classification of recreational waters, developing behavioural change programmes focussing on pollution reduction and reuse of treated wastewater, monitoring impact of run-off & poor land-use practices; and in the identification and tracking of priority pollutants such as plastics leakage to the environment.

#### *D. Ecosystem-Based Management Approaches*

##### Strategic objectives:

- Reduce anthropogenic pressures/pollution on coastal and marine areas in order to prevent and/or reduce their degradation;
- Ensure preservation of the integrity of coastal and marine ecosystems through the control, reduction and prevention of marine pollution;
- Ensure that activities in terrestrial, coastal and marine areas do not increase marine pollution.

##### Main activities:

1. Support the Cartagena Convention Secretariat in continued integration of the LBS and SPAW sub-programmes.
2. Implement national and community-based EBM projects emphasizing local community benefits
3. Implement policy, legislative and institutional reforms for addressing marine pollution

#### *E. Knowledge Management and Communications*

##### Strategic objectives:

- Strengthen knowledge and awareness on best practices, lessons learned and appropriate technologies for the control, reduction and prevention of marine pollution;
- Compile, analyze and present pollution related data and information for informing policy and decision-making in the Wider Caribbean Region;
- Enhance visibility of the LBS Protocol including value and relevance to the region and general population;

##### Main activities:

- Provide support to Contracting Parties to facilitate the process of national reporting obligations on pollution indicators linked to SDGs and other Global MEAs.

- Promote/Identify research and educational programmes in cooperation with academic and research institutions, focusing on control, reduction and prevention of marine pollution.
- Support the further development of national and/or regional databases and information platforms relating to resource management and impacts of pollution on economies.
- Support the implementation of the Communications Strategy of the Secretariat.
- Facilitate exchange of best practices, lessons learned, twinnings and experience between and among Contracting Parties.
- Facilitate implementation of relevant global campaigns on nutrients, marine litter, wastewater and other issues relevant to the LBS and Oil Spills Protocols.
- Improve Communication and Outreach with LBS Focal Points.

The draft work plan 2023/2024 for RAC IMA is provided in Table 1.

**Table 1: Draft RAC IMA Work Plan 2023/2024.**

Project Name and Code	Activity	Dates of Activity	Objective(s)	Source of Funds	Budget (USD)	Recipients/ Participants	Outputs
<p>Small Scale Funded Agreement (SSFA) UNEP and IMA. Project/programme entitled Capacity Building Related to Multilateral Environmental Agreements in African, Caribbean and Pacific Countries (ACP MEAs III) and Global Environment Facility CReW+ Project: An integrated approach to water and wastewater management in the Wider Caribbean Region using innovative solutions</p>	<p>This SSFA consist of nine project components each broken down in separate rows below</p>	<p>January 2023 to December 2023</p>	<p>This agreement contributes to UNEP's 2021/2022 programme of work under ecosystem management for the Specially Protected Areas and Wildlife (SPAW) and AMEP Sub-programmes, including the EU-funded ACP MEAs III Project and GEF CReW+, for which the Cartagena Convention Secretariat is a partner executing agency. This agreement provides support for the implementation of the Cartagena Convention Regional Strategy and Action Plan for the Valuation, Protection and/or</p>	<p>UNEP HQ ACP MEAs III GEF CReW+ Project</p>	<p><b>158,000.00</b></p>	<p>RAC IMA RAC CIMAB,  Cartagena Convention Secretariat  Focal points of LBS protocol</p>	<p>Expected Outputs under the SIDA Funds (UNEP HQ):</p> <ol style="list-style-type: none"> <li>1. Integrated report on guidelines for the classification of waters according to the LBS Protocol</li> <li>2. Integrated report on the regional criteria and standards for Nitrogen (N) and Phosphorus (P) loads in domestic and industrial wastewater discharges</li> <li>3. A regional workshop convened on Eutrophication &amp; Harmful Algal Blooms Under Component 1 (Output 1.1.2 and Output 1.1.3) of the GEF CReW+ Project:</li> <li>4. Support RAC CIMAB in Developing recommendations for amendments to the LBS Protocol to facilitate increased reuse of domestic wastewater including adoption of new criteria or standards for domestic wastewater discharges</li> <li>5. Review, Analysis and Report for developing a new Strategy or Protocol on the management of freshwater</li> </ol>

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and sustainable financing mechanisms (GEF CReW+)			Restoration of Key Marine Habitats in the Wider Caribbean 2021 – 2030 United Nations Environment Programme - Caribbean Environment Programme (UNEP CEP).				resources within the framework of the Cartagena Convention with a focus on freshwater and the regional level.  A sub-regional report (English-speaking countries) with the information about the national management of freshwater resources with a focus on Source to Sea and Integrated Watershed Management (in English). A short integrated report in English and Spanish including recommendations for the STAC, which is based on the separate sub regional reports by RAC-IMA and RAC-CIMAB. 1 Under Component 4 (Output 4.3.2) of the GEF CReW+ Project, IMA will deliver: An updated clearinghouse mechanism. 1 Expected Output 2.3.2 under the ACP MEAs III Project, IMA will deliver: m National pollution strategy developed in one English-speaking country
SSFA- Component 1 - Develop Guidelines for classification of waters according to the LBS Protocol with in kind support by RAC CIMAB.	1.1. Design and send questionnaire to the English speaking countries on water classification system. 1.2. A literature review on water classification system used globally.	January– March 2023	Develop Guidelines for classification of waters according to the LBS Protocol	UNEP HQ	6000	RAC IMA RAC CIMAB,  Cartagena Convention Secretariat  Focal points of LBS protocol	Questionnaire developed for the English speaking countries on water classification system.  A literature review on water classification system used globally.  A review on water classification system according to the LBS Protocol implemented in



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	<p>1.3. A review on water classification system according to the LBS Protocol implemented in the wider Caribbean region on successes and lesson learnt.</p> <p>1.4. Sub-regional report received from RAC CIMAB based on questionnaire responses from Spanish Speaking countries on water classification system and implemented according to the LBS Protocol.</p> <p>1.5. Integration of sub regional reports the results of both reports (sub-regional studies) and preparation of the final report in both languages</p>						<p>the wider Caribbean region on successes and lesson learnt.</p>

Project Name and Code	Activity	Dates of Activity	Objective(s)	Source of Funds	Budget (USD)	Recipients/ Participants	Outputs
<p>SSFA- Component 2 - Establish regional criteria and standards for Nitrogen (N) and Phosphorus (P) loads in domestic and industrial wastewater discharges together with support from RAC CIMAB.</p>	<p>2.1. Summary of the criteria and national standards of the English-speaking countries of the Greater Caribbean Region for N and P for discharges or discharges of industrial and domestic wastewater.                      2.2. Summary of criteria and standards for N and P in other regions or countries for discharges or discharges of industrial and domestic wastewater.                      2.3. Surveys to national or regional experts from Spanish-speaking countries on limits, criteria or standards for N and P, including which compounds they propose and the limits.</p>	<p>January– March 2023</p>	<p>An integrated approach to water and wastewater management in the Wider Caribbean Region using innovative solutions and sustainable financing mechanisms</p> <p>Establish regional criteria and standards for Nitrogen (N) and Phosphorus (P) loads in domestic and industrial wastewater discharges</p>	<p>UNEP HQ</p>	<p>10000</p>	<p>RAC IMA                      RAC CIMAB,                      Cartagena Convention Secretariat                      Focal points of LBS protocol</p>	<p>A sub regional report (Spanish speaking countries) received from RAC Cimab (Spanish and English languages) on Establish regional criteria and standards for Nitrogen (N) and Phosphorus (P) loads in domestic and industrial wastewater discharges.</p>

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	<p>2.4. Sub-regional report with the proposed criteria or standards for N and P that will include types of compounds and limits in the form of concentration or in the form of pollutant load.</p> <p>2.5. Survey on designation of sensitive sites in countries or classification system.</p> <p>2.6. Regulatory Framework in country for pollution control.</p> <p>2.7 Key Economic and Water related statistics</p> <p>2.8 Integration of the results of both reports (sub-regional studies) and preparation of the final report in both languages</p>						
SSFA- Component 4-Support RAC-CIMAB in the development of recommendations for amendments to the LBS Protocol to facilitate increased reuse of domestic wastewater including adoption of new criteria or standards	4.1. Review the national standards for wastewater discharge in the English-speaking countries specifically indicators that are now included in Annex III of the LBS Protocol (SST, BOD5, pH, fats and oils, faecal coliforms, E. Coli).	January– March 2023	Development of recommendations for amendments to the LBS Protocol to facilitate increased reuse of domestic wastewater including adoption of new criteria or standards for domestic wastewater discharges.	<b>GEF CREW+ FUNDS</b>	40,000	RAC IMA RAC CIMAB,  Cartagena Convention Secretariat  Focal points of LBS protocol	<p>Review of the national standards for wastewater discharge in countries specifically indicators that are now included in Annex III of the LBS Protocol (SST, BOD5, pH, fats and oils, faecal coliforms, E. Coli).</p> <p>Recommendations for amendments to the LBS Protocol to facilitate increased reuse of domestic wastewater including adoption of new criteria or standards for domestic wastewater discharges.</p>

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for domestic wastewater discharges.	<p>4.2. Summary of limits or standards for other regions of the same indicators or other selected ones.</p> <p>4.3. Results of surveys of national or regional experts on other indicators/parameters to be included in Annex III of the LBS Protocol (and its limits).</p> <p>4.4. Sub-regional report (English-speaking countries) that includes all information above and also:</p> <ul style="list-style-type: none"> <li>• Proposal of new limits (or not) to the indicators already included in Annex III of the LBS Protocol and with the proposal of new indicators (if considered necessary).</li> <li>• Amend Annex III on wastewater to include criteria or standards for wastewater reuse</li> </ul>						

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	<p>and/or adopt a decision to develop these at the national level based on some proposed criteria</p> <ul style="list-style-type: none"> <li>• Proposal to include or update any article in the annexes of the LBS Protocol</li> </ul> <p>4.5. Provide RAC - CIMAB with Sub-regional report (English-speaking countries) for preparation of the final report in both languages.</p>						
SSFA- Component 5- Review, Analysis and Report for developing a new Strategy or Protocol on the management of freshwater resources within the framework of the Cartagena Convention with a focus on Source to Sea and Integrated Watershed Management.	<p>5.1. Design and send questionnaire to the English-speaking countries.</p> <p>5.2. Update of work done by J. Eugenio Barrios O. on “Outline of Technical Paper on the incorporation of freshwater issues into the LBS Protocol”</p> <p>5.3. Review of work in other countries on management of</p>	January–June 2023	Development of recommendations for amendments to the LBS Protocol to facilitate increased reuse of domestic wastewater including adoption of new criteria or standards for domestic wastewater discharges.	GEF CREW+ FUNDS	30,000	RAC IMA RAC CIMAB,  Cartagena Convention Secretariat  Focal points of LBS protocol	Report on recommendations for amendments to the LBS Protocol to facilitate increased reuse of domestic wastewater including adoption of new criteria or standards for domestic wastewater discharges.

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	<p>freshwater resources including the EU Waters Framework Directive.</p> <p>5.4. Sub regional report (English-speaking countries) with the information about the national management of freshwater resources with a focus on Source to Sea and Integrated Watershed Management (in English).</p> <p>5.5. Develop short integrated report in English and Spanish including recommendations for the STAC, which is based on the separate sub regional reports by RAC-IMA and RAC-CIMAB.</p>						

Project Name and Code	Activity	Dates of Activity	Objective(s)	Source of Funds	Budget (USD)	Recipients/ Participants	Outputs
SSFA- Component 6- Promote LBS Protocol Ratification in Non-Contracting Parties (English Speaking countries), including development of promotional and awareness material for ratification	<p>6.1. National Workshop to promote LBS Protocol Ratification (at least in one English speaking country).</p> <p>6.2. Design and develop promotional and awareness material for LBS Protocol ratification.</p> <p>6.3. Organize meetings/workshop (online or face to face) between Contracting parties and Non-contracting parties to share experiences and lessons learnt on the process of ratification and implementation of the LBS Protocol.</p>	January 2023 to December 2023	Promote LBS Protocol Ratification in Non-Contracting Parties (English Speaking countries), including development of promotional and awareness material for ratification	GEF CREW+ FUNDS	10,000	<p>RAC IMA RAC CIMAB,  Cartagena Convention Secretariat</p> <p>Non - contracting party Focal points of LBS protocol</p>	<p>National Workshop to promote LBS Protocol Ratification (at least in one English speaking country).</p> <p>Promotional and awareness material for LBS Protocol ratification.</p> <p>Meetings/workshop (online or face to face) between Contracting parties and Non-contracting parties to share experiences and lessons learnt on the process of ratification</p>

Project Name and Code	Activity	Dates of Activity	Objective(s)	Source of Funds	Budget (USD)	Recipients/ Participants	Outputs
<p>SSFA- Component 7- Implement Training on innovative low-cost integrated water and wastewater management such as though webinars, MOOC, training programmes with the participation of civil society.</p>	<p>7.1. Technical Training on innovative low-cost integrated water and wastewater (country to be determined according to the training needs).</p> <p>7.2. Technical workshops or training in the following thematic areas according to the needs (modality: online, virtual, face to face or formal to be determined):</p> <ul style="list-style-type: none"> <li>a) Pollution Monitoring and Assessment</li> <li>b) Policy, Institutional and Regulatory Reforms</li> <li>c) Stakeholder Engagement</li> </ul>	<p>January 2023 – September 2023</p>	<p>Implement Training on innovative low-cost integrated water and wastewater management such as though webinars, MOOC, training programmes with the participation of civil society.</p>	<p>GEF CREW+ FUNDS</p>	<p>10,000</p>	<p>RAC IMA RAC CIMAB,  Cartagena Convention Secretariat  Non -contracting party Focal points of LBS protocol</p>	<p>Technical workshops or training on innovative low-cost integrated water and wastewater though webinars, MOOC, training programmes with the participation of civil society.</p>



Project Name and Code	Activity	Dates of Activity	Objective(s)	Source of Funds	Budget (USD)	Recipients/ Participants	Outputs
	d) Communication, Public Awareness and Advocacy e) Research f) Political Support for Ratification						
SSFA- Component 8 Update CReW+ clearinghouse mechanism on financial options, small- and large-scale wastewater treatment technologies, and wastewater and water management policies and practices developed	Strengthening of RAC IMA capacities in order to improve the clearinghouse mechanism related to wastewater treatment technologies, and wastewater and water management policies and practices developed. This includes: 8.1.1. Acquisition of hardware (computers, printers) to improve capacities to (a) Compile best practices and technologies from all of the countries;	31 December 2023	Update CReW+ clearinghouse mechanism on financial options, small- and large-scale wastewater treatment technologies, and wastewater and water management policies and practices developed	GEF CReW+ FUNDS	10,000	RAC IMA RAC CIMAB,  Cartagena Convention Secretariat  Focal points of LBS protocol	Improved capacity at RAC-IMA for the management and dissemination of information

Project Name and Code	Activity	Dates of Activity	Objective(s)	Source of Funds	Budget (USD)	Recipients/ Participants	Outputs
	(b) Compile national policies relating to wastewater management and pollution (c) Compile national standards relating to wastewater effluent discharge 8.1.2. Updating RAC IMA's website to include LBS related information and links to the LBS Protocol, the website of the Secretariat as well as the CReW+ Academy.						
SSFA- Component 9 - Develop/Review/Update one national pollution/nutrients reduction strategy and plan in one English speaking country	9.1. Review of national pollution/nutrients reduction initiatives in Trinidad and Tobago indicating successes, barriers and lessons learnt for upscaling and implementation in other countries.	June to December 2023	Develop/Review/Update one national pollution/nutrients reduction strategy and plan in one English speaking country	<i>ACP MEA III Funds</i>	12,000	RAC IMA RAC CIMAB,  Cartagena Convention Secretariat  Focal points of LBS protocol	Final report with the national pollution/nutrient reduction strategy document indicating successes, barriers and lessons learnt for upscaling and implementation in other countries.

Project Name and Code	Activity	Dates of Activity	Objective(s)	Source of Funds	Budget (USD)	Recipients/ Participants	Outputs
	<p>9.2. Review of the national legal framework related with management, control and evaluations of nutrient pollution.</p> <p>9.3. National stakeholder consultation with actors involved in management, control and evaluation of nutrient pollution.</p> <p>9.4. Site selection for implementation of one national pollution/nutrient reduction strategy targeting either industrial, domestic, agricultural or marine based activity.</p> <p>9.5. Final report with the national pollution/nutrient strategy/ lessons learnt and opportunities for upscaling.</p>						

Project Name and Code	Activity	Dates of Activity	Objective(s)	Source of Funds	Budget (USD)	Recipients/ Participants	Outputs
<p><b>Marine Space Remote Sensing in Trinidad and Tobago</b></p> <p><b>The use of remotely sensed products, such as optical and SAR imagery and oceanic variables for marine pollution surveillance including oil spill detection and monitoring, sargassum tracking and trajectory modelling and ocean health monitoring for ecosystem management.</b></p> <p>Trinidad and Tobago and subsequent upscaling in the wider Caribbean Region</p>	<p>Staff of the Geomatics Unit, IMA and personnel of the Ministry of Energy and Energy Industries (MEEI) and the Environmental Management Authority (EMA) Trinidad and Tobago received training on the use of satellite imagery for oil spill detection and monitoring by SAB NOAA in May-June 2021.</p> <p>Daily oil spill monitoring was conducted by IMA, EMA and MEEI in waters of Trinidad and Tobago since July 2021.</p> <p>Proposed expansion to other areas of the Caribbean region including the Eastern and Southern Caribbean, with a test period starting January 2023.</p>	<p>January 2023 to December 2025</p>	<p>To train staff in Trinidad and Tobago to detect and monitor for oil spills in region.</p> <p>To link oil spills with suspected sources by satellite monitoring.</p> <p>To upscale initial Marine Surveillance Programme in Trinidad and Tobago for the wider Caribbean Region.</p> <p>Purchase of equipment, reagents and consumables, GIS software and Licences for monitoring and ground truthing remotely sensed information.</p> <p>Recruitment of staff Training and application of drone technology in marine pollution monitoring.</p>	<p>Trinidad and Tobago Government.</p>	<p>324,000</p>	<p>SAB NOAA, RAC IMA, RAC REMPEITC, MEEI, EMA, Cartagena Convention Secretariat</p> <p>Focal points of LBS protocol</p>	<p>Oil spill remote sensing capabilities for the Exclusive Economic Zone (EEZ) of Trinidad and Tobago.</p> <p>Memorandum of Agreement between SAB NOAA and MEEI /Government of Trinidad and Tobago in oil spill monitoring for Trinidad and Tobago.</p> <p>Trained staff in Trinidad and Tobago to monitor for oil spills in region (Eastern and Southern Caribbean).</p> <p>Oil pollution reports on oil spills in region.</p> <p>A remote sensing water quality assessment product for the Trinidad and Tobago EEZ.</p> <p>Sargassum detection product for Trinidad and Tobago and the wider region.</p>

Project Name and Code	Activity	Dates of Activity	Objective(s)	Source of Funds	Budget (USD)	Recipients/ Participants	Outputs
<p>Prevention of Marine Litter in the Caribbean Sea (PROMAR) – Promoting Circular Economy Solutions in the Dominican Republic, Costa Rica, Colombia, the British Virgin Islands, Guyana, Suriname, Saint Kitts and Nevis, and Trinidad and Tobago</p>	<p>Activity 1 Analyse Material Flows and Establish Monitoring Mechanisms                      1.1 Conduct a stakeholder consultation in order to select a demonstration site and the most suitable monitoring methodology.                      1.2 Collect data through on-site sampling (e.g. drone sampling and physical shoreline debris survey) and identification/ quantification of sources.</p>	<p>Proposed March 2023 to December 2024</p>	<p>Analyse Material Flows and Establish Monitoring Mechanisms.                      Implement a Pilot Case for Marine Litter Prevention.                      Implement a Replication Case for Marine Litter Prevention and Engage in Transnational Policy Dialogue                      Stakeholder Awareness and Information Dissemination</p>	<p>Small Scale Funding Agreement between Cartagena Convention Secretariat and RAC IMA</p>	<p>558,000</p>	<p>RAC IMA                       Dominican Republic, Costa Rica, Colombia, the British Virgin Islands, Guyana, Suriname, Saint Kitts and Nevis, and Trinidad and Tobago.</p>	<p>The project will facilitate the implementation of project activities in Trinidad and Tobago towards prevention of marine litter in the Caribbean.                      Reduction in the flows of plastic waste (mainly single-use plastic and packaging materials) from terrestrial sources into aquatic environments in the Caribbean Sea</p>

Project Name and Code	Activity	Dates of Activity	Objective(s)	Source of Funds	Budget (USD)	Recipients/ Participants	Outputs
	<p>1.3 Carry out material flow analyses as baselines of waste entering aquatic environments based on collected data at the selected demonstration site.</p> <p>1.4 Prepare a Standard Operating Procedure (SOP)/ Guidance Document including lessons learnt during the monitoring exercises.</p> <p>1.5 Conduct training on the SOP/ Guidance Document for relevant stakeholders.</p> <p>Activity 2 Implement a Pilot Case for Marine Litter Prevention</p> <p>2.1 Conduct a stakeholder consultation in order to select the most suitable tools and</p>					Cartagena Convention Secretariat	

Project Name and Code	Activity	Dates of Activity	Objective(s)	Source of Funds	Budget (USD)	Recipients/ Participants	Outputs
	<p>technologies from the Toolbox developed under the project for prevention of marine litter at the demonstration site.</p> <p>2.2 Implement a pilot case for reduction of waste entering aquatic environments through circular economy solutions in partnership with local communities, informal workers, public and private actors.</p> <p>2.3 Document the pilot case, capture success stories and disseminate lessons learnt.</p> <p><b>Activity 3 Implement a Replication Case for Marine Litter Prevention and Engage in Transnational Policy Dialogue</b></p>						

Project Name and Code	Activity	Dates of Activity	Objective(s)	Source of Funds	Budget (USD)	Recipients/ Participants	Outputs
	<p>3.1 Implement a replication case for reduction of waste entering aquatic environments through circular economy solutions in partnership with local communities, informal workers, public and private actors.</p> <p>3.2 Document the pilot case, capture success stories and disseminate lessons learnt.</p> <p>3.3 Prepare a paper on project successes for presentation in international fora.</p> <p>Activity 4 Stakeholder Awareness and</p>						



Project Name and Code	Activity	Dates of Activity	Objective(s)	Source of Funds	Budget (USD)	Recipients/ Participants	Outputs
	<p>Information Dissemination</p> <p>4.1 Organise at least two awareness-raising events on waste prevention (e.g. beach and river clean-ups to collect marine debris).</p> <p>4.2 Conduct surveys and evaluations to assess knowledge, attitudes and practices (KAP) on marine littering amongst stakeholders from civil society, the public and private sector, as part of events and stakeholder interactions.</p> <p>4.3 Disseminate public awareness and education material on marine litter prevention, developed as part of the project, to local stakeholders.</p>						

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National Coastal Conservation Programme: Long Term Environmental Monitoring and Assessment in Trinidad and Tobago	On-going water, water quality monitoring. Parameters include, physiochemical (pH, temperature, Dissolve oxygen, salinity, turbidity) nutrients (ammonia, nitrites, nitrates, reactive and total phosphates), total suspended solids, chlorophyll a, and, hydrocarbons.	Sampling conducted during the dry and wet 2023/2024 at 12 sites within the Gulf of Paria, Trinidad.	Monitoring programme established to provide timely and continuous data and information on the environmental status and impacts of Trinidad and Tobago so as to effect policy changes/making for the improvement in the quality of life of citizens and preservation of our natural environments.  To assess the contribution of land-based sources of pollution in Trinidad	Government of Trinidad and Tobago	5,000	Trinidad and Tobago, IMA	Data used towards producing a State of the Marine Environment Report 2020 for Trinidad and Tobago.  Research Reports  Water quality data for future SOCAR reports.
Bacteriological Water Quality at Popular Recreational Water-Use Sites in Trinidad and Tobago	Bacteriological Water Quality Surveys at popular bathing beaches on the east coast and west coast of Trinidad.	Bacteriological Water Quality Surveys during the wet and dry season of 2023/2024 0.	To identify possible sources of sewage contamination for beaches surveyed for mitigation measures.  To provide data and information to safeguard public health from risk of illness and infectious disease.	Government of Trinidad and Tobago	5,000	Trinidad and Tobago, IMA	Data used towards producing a State of the Marine Environment Report 2020 for Trinidad and Tobago.  Research Reports  Water quality data for future SOCAR reports.

Project Name and Code	Activity	Dates of Activity	Objective(s)	Source of Funds	Budget (USD)	Recipients/ Participants	Outputs
			To ensure representative bacteriological water quality data is obtained at popular beaches				
Monitoring of coral reef and seagrass beds in Trinidad and Tobago	<p>Coral reefs in Tobago are monitored annually to determine changes in % coral cover</p> <p>Productivity and biomass of seagrass beds at selected sites in Trinidad and Tobago are monitored 2 times per years</p> <p>Water quality sampling (nutrient, TSS, chl A, bacteria) is conducted at 12 sites in SW Tobago twice per year.</p> <p>Water quality sampling at 4 sites along the NW</p>	<p>Coral reef monitoring on Buccoo Reef began in 1992.</p> <p>Monitoring of other reefs began in 2008 and is on-going</p> <p>Seagrass monitoring commenced in 2002 and is on-going.</p>	<p>To monitor ecosystem health and determine impacts from land-based sources of pollution and climate change.</p> <p>To conduct an integrated baseline assessment of coral reefs around Tobago using environmental (physical and chemical), ecological and socio-economic indicators of reef health.</p> <p>To provide timely and continuous data and information on the environmental status and impacts of Trinidad and</p>	Government of Trinidad and Tobago	10,000	Trinidad and Tobago	<p>Coral Reef Health Report Card</p> <p>Data used towards producing a State of the Marine Environment Report 2020 for Trinidad and Tobago.</p> <p>Research Reports</p> <p>Water quality data for future SOCAR reports.</p> <p>Data on ecosystem health that is shared with Management Agencies such as THA.</p>

Project Name and Code	Activity	Dates of Activity	Objective(s)	Source of Funds	Budget (USD)	Recipients/ Participants	Outputs
	<p>peninsula of Trinidad is collected 2 times per year</p> <p>Planning and installation of new CREWS system based on NOAA and 5C's initiative</p> <p>Outfitting of new instrument with water quality probes</p>	<p>Water quality monitoring in Tobago and at seagrass sites in Trinidad commenced in 2006 and is on-going</p> <p>1st quarter 2023</p>	<p>Tobago so as to affect policy changes/making preservation of our natural environments.</p> <p>To monitor coral reefs systems for detection of environmental conditions linked to degradation and risk to coral reef health.</p>		<p>20,000 For water quality Sonde purchase only.</p>		<p>Data on ecosystem health that is shared with Management Agencies such as THA.</p>